

User Manual



Bzooma K-Bot



Marketed in Australia and New Zealand by Bzooma Pty Ltd ABN 37 640 907 507

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COMPANY INTRODUCTION

Bzooma Pty Ltd is a wholly owned Australian Company holding exclusive rights to market the products of Zhejiang Topso Technology Co. Ltd. in Australia and New Zealand. Their factory is located in Hangzhou, the Leisure Capital of China. Zhejiang Topso works closely with the industrial design specialists of the China National Innovation Centre, and their strong technical team has direct access to the mechanical-electrical integration department of the National Robot Laboratory.

We aim to bring efficient, low-to-zero emission, affordable mobility resources to you the private owner, as well as to Tourism, Industry, Police and Government organizations and the myriad companies who need people to move about efficiently.

The four models marketed in Australia and New Zealand have a strong following in Europe, Scandinavia, China, the Middle East, Japan and Korea. They are widely used in airports, conference and exhibition centers, sporting venues, tourist parks, and are increasingly used by police and on military bases.

As this amazing technology continues to develop, Bzooma will be the first to bring it to you at the most affordable price.

Bzooma Pty Ltd is a compact efficient team of product development specialists, marketers, and support personnel, who are committed to the job of receiving your order or enquiry, and dealing with it promptly and efficiently through our dealer network spanning Australia and New Zealand.

In line with the Bzooma policy of conservation, our premises and equipment are powered by solar electricity.

At Bzooma, we offer a select range of Personal Transporters through an efficient organization with no unnecessary overheads, bringing you the customer cutting-edge technology at the lowest possible price.

K-BOT INTRODUCTION

The K-Bot is suitable for daily transportation use or leisure. K-Bot's balance is controlled by gyroscope sensors and driven by a high tech electric motor. When standing on the machine, the user simply leans forward to drive it and leans back to stop it. Left & right balance is maintained the same as riding a bicycle. The further forward you lean the faster you go.

The K-Bot is small enough to be taken and used anywhere.

Perfecting the skill of riding the K-Bot will strengthen your muscles and enhance your physical development. By mastering the balance movement, you train your attention, cultivate reaction speed, increase body flexibility, and improve physique and self-confidence.

Before you ride the Bzooma K-Bot, please read the warnings and safety instructions.

OPERATING PRINCIPLE

K- Bot Inverted Pendulum System

The forwards and backwards stability of the Bzooma K-Bot is controlled by the machine's intelligent power base. It can be thought of as a computer with its motor reacting to sensors that maintain an inverted pendulum. A great deal of research was invested into perfecting this system for manufacture. Left and right stability is dependent on the user and achieved identically to riding a bicycle.

Technical Specifications

Max Speed: 18KM/H

Range: About 40km

Changeable Battery: 400WH

Motor: 500W

Max Load: 120kg

Charging Time: About 4 hours

Wheel Size: 407 mm

Type: Unicycle

Max Incline: <17 degree

Pedal Height: 95mm (when dismounted)

Charging Voltage: Support AC110V~220V, 50-60HZ

Applicable Temperature: -40 °C - 50 °C

K- Bot Weight: 13.6kg

WHAT'S IN THE BOX

The main constituent parts of K-Bot self balancing monocycle

K Bot



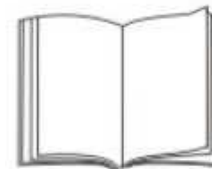
Charger.....



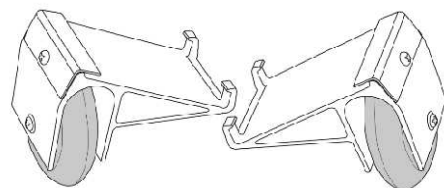
Learner's strap.....



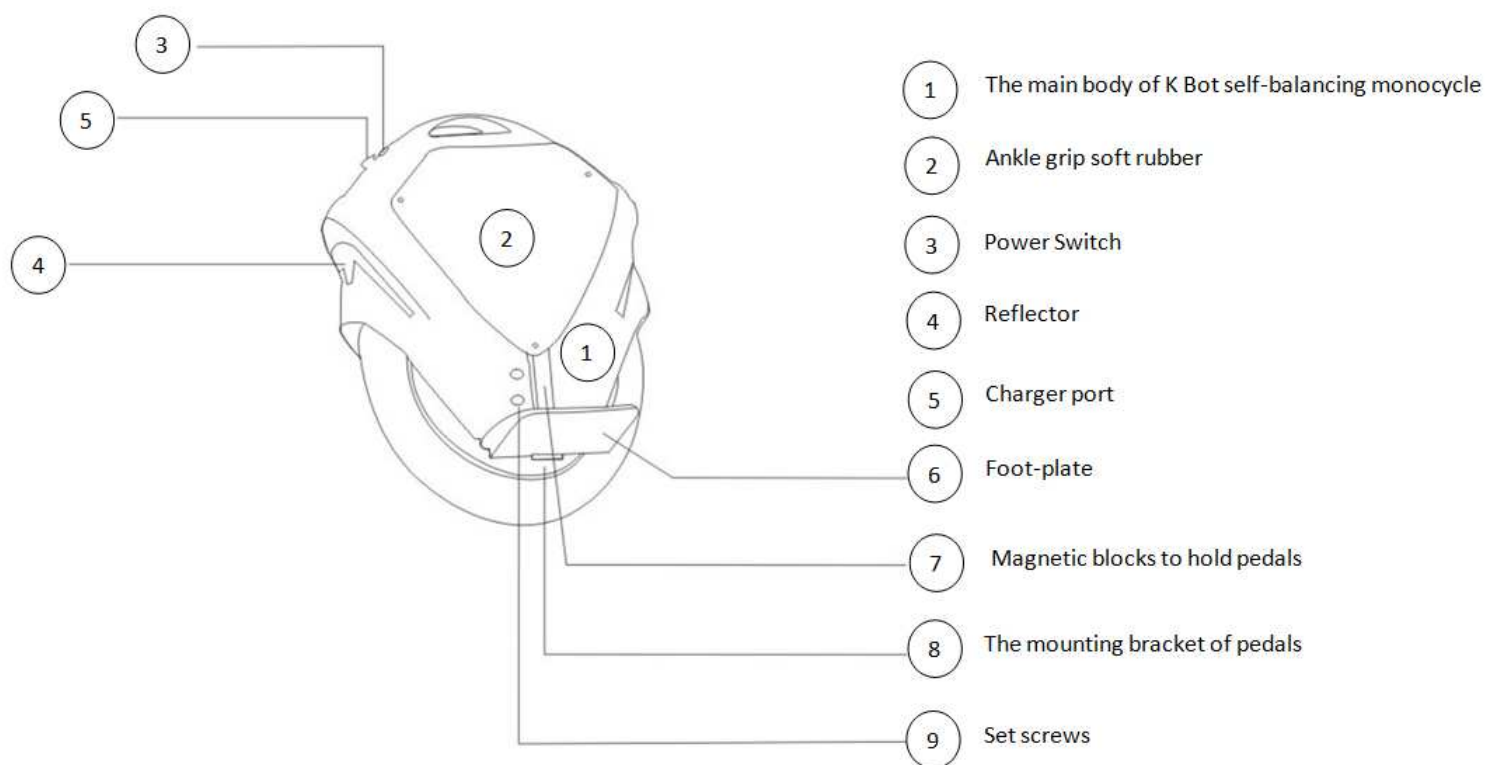
Manual online as PDF or web book at bzooma.com.au



Training wheels (Optional extra)



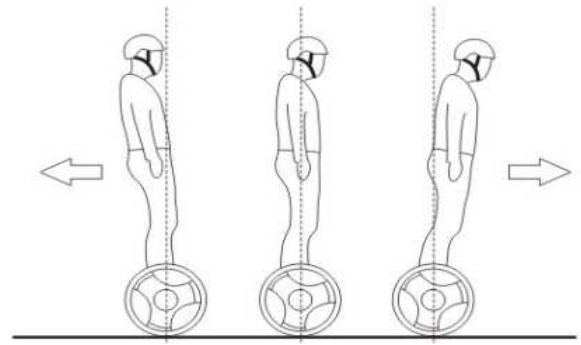
THE MAIN CONSTITUENT PARTS OF K-BOT



HOW TO KEEP YOUR BALANCE



1) K-Bot is self-balancing. It uses a gyroscope to maintain stability forward and back.



2) When you lean forward, the K Bot will move according to how far you lean. When you lean back, you will slow down or stop accordingly.



3) The K- Bot cannot keep balance left and right. It needs forward motion and weight control, just like riding a bike.

PREPARATION FOR RIDING

1. The use of the learners strap will be useful until you become proficient in your riding skills.

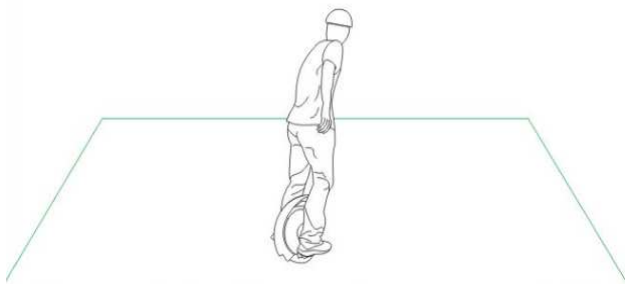


1) Fit learners strap to the handle of the K Bot. Keep one foot on the pedal. Adjust the learners strap to a comfortable length.



2) When you lose your balance and have to jump off the K- Bot, you can use the learners strap to grab it and avoid scratches.

PREPARATIONS



1) Choose a suitable place: test ride on a flat area, without motor vehicles and people.



2) Check the charge in the battery. A **green** light = At least 80% full. A **Red** light = 20% or less charge remains.



3) An assistant is helpful right now.



4) Pass learners strap through the handle and adjust the length in place.



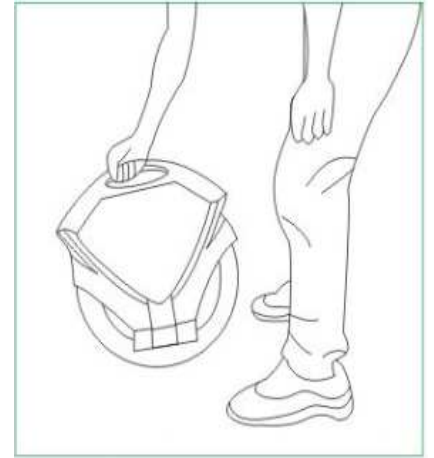
5) The learner's wheels may be useful at this stage. A dependence on them may restrict your learning process.

INSTRUCTIONS TO RIDE

There are five steps to ride the K- Bot. Please carefully read the manual as it really will help.

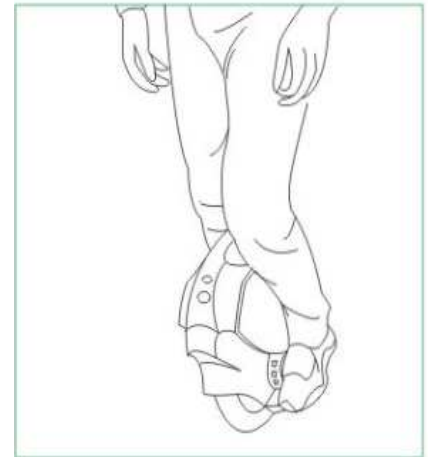
1. Power-on

- Grip the handle with one hand, keep the K Bot vertical, and open the two pedals.
- Press the power button to turn the machine on. You will hear a beep. The green light will turn on and it's ready to ride.
- NOTE -DO NOT RIDE IF THE RED LIGHT TURNS ON!
- It is advised to move the handle forwards and backwards several times along the direction of travel to get an understanding of acceleration and deceleration.



2. Try to stand

- Now step one foot onto the pedal. Stand with the middle of your foot on the pedal.
- With one foot on the machine and one still on the ground you should be able to get a sense of forwards and backwards movement. Press your ankle against the ankle grip to steady the machine.
- Gradually adjust your balance towards the foot which is on the K-Bot. Once a stable center is achieved, your aim is to move the other foot onto its pedal. Your foot must be able to resist returning to the ground for one to two seconds. Keep practicing and do not continue with further steps for riding until this is achieved.



3. Riding

Primary movements

Adjust your balance on the K-Bot and gently push forward on the pedals like riding a bike. At the same time, use the foot on the ground to push off and the K-Bot will move ahead. You will need to keep balance as explained earlier when standing on the K-Bot. Quickly put the other foot on the pedal and you should be able to ride for at least 3-5 meters. Now get some practice at forward and backward in a straight line. You need to be confident at this to move on to the next step which is turning.

Secondary movements

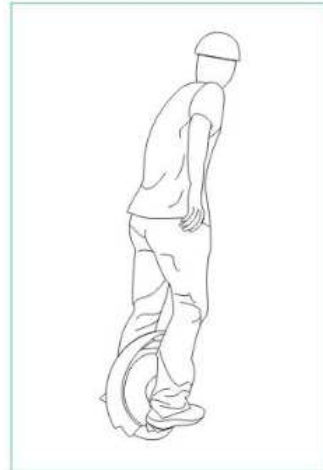
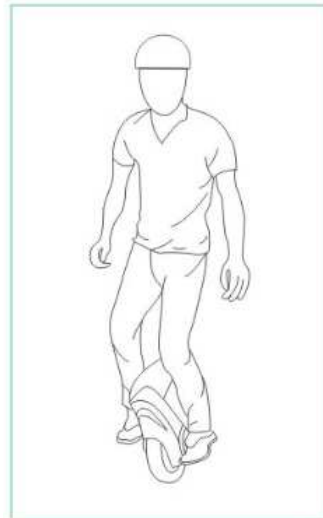
Now that you are riding, attention should be focused on keeping and adjusting speed. Keep a fixed speed by maintaining your lean forwards or backwards. Adjust speed by leaning further forwards or backwards. Keep practicing as this will allow you to ride for longer distances.

Turning

Initially, beginners will tend to turn by rotating their upper body. However, in order to advance and turn with precision, you need to be able to adjust your weight accordingly. Apply weight towards the direction you want to turn by pushing down through your feet.

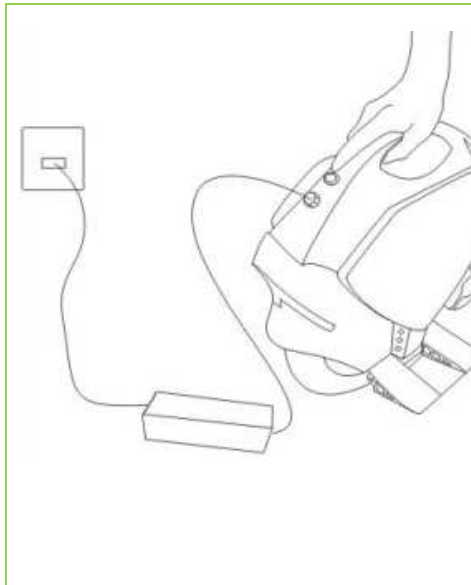
Safety

With experience you will recognise your own riding limitations. Please be aware that the K-Bot has weight limits and restrictions which are as advised earlier.

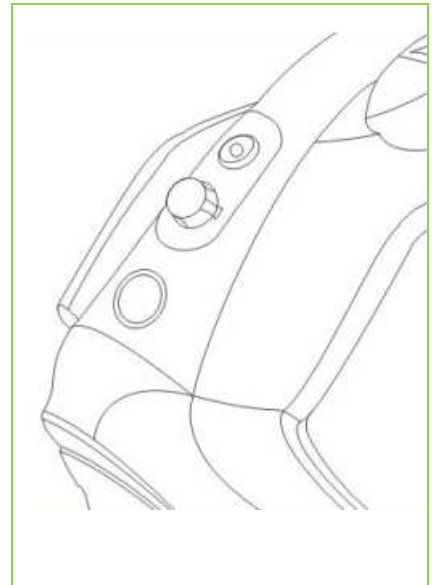




1. The batteries are lithium ion. You should make sure that the battery is fully charged on first use.



2. Please charge the battery in a clean and dry location. When the red light comes on, the charge is in progress.



3. It will take about four hours to fully charge. When the charger indicator changes from red to green, it means the charging is complete.

MAINTENANCE AND SERVICE

PRESERVATION

Please store the K- Bot in a dry place.

Please disconnect the charger when not used for longer periods of time. Refer to your Bzooma dealer should the battery eventually need replacement.

Please use a wet cloth and warm detergent to clean your K- Bot.

TYRE CARE

The recommended tyre pressure for the K Bot is 250 KPA (36 PSI)

If a tyre requires replacement the best option is to have it serviced at your dealer where the correct tyre is available. Your dealer has experience with this task. If you prefer to do the job yourself, refer to the service section of the Bzooma web site www.bzooma.com.au for detailed instructions and photographs.

BATTERY CARE

Charge the batteries occasionally even if not used. This will extend the battery life.

The life expectancy of the battery is about one thousand charges. When a battery requires replacement please refer to your dealer who will supply and fit a factory recommended battery. They will then send the expired battery for recycling.

CONTACT INFORMATION

Bzooma Pty Ltd

Website: <http://bzooma.com.au>

E-mail: office@bzooma.com.au

Refer to bzooma.com.au for a dealer near you.

WARRANTY

Bzooma Pty Ltd Limited Warranty

Bzooma Pty Ltd provides this Limited Warranty to the original purchasers of new Bzooma machines in Australia and New Zealand.

Bzooma Pty Ltd guarantees the machine, power base including Motor, Battery and charger, against defects in materials and workmanship for a period of one (1) year, from date of delivery to the original purchaser. Damage caused by accident or obvious abuse is not covered by this warranty.

To make a claim covered by this warranty the purchaser must contact an authorised BZOOMA Pty Ltd Dealer for inspection and service. Indications of abuse, accident, or unauthorised tampering with the machine power base mechanical, or electrical equipment, will void any claim. Bzooma Pty Ltd is not responsible for transport costs associated with obtaining service or repairs under this warranty.

